

CLAIMS

What is claimed is:

1. A liquid drop ejecting device for ejecting a liquid drop to a workpiece, comprising:

- a plurality of liquid drop ejecting heads;

- a plurality of control sections which are provided with circuits for restricting an oscillation of a driving waveform which is applied to the liquid drop ejecting heads; and

- a selecting section which selects either one of the plurality of control sections according to a liquid drop which is ejected from the liquid drop ejecting heads, wherein

- the driving waveform is applied to the liquid drop ejecting heads via the control section which is selected by the selecting section.

2. A liquid drop ejecting device according to Claim 1 wherein:

- the selecting section is provided with plural electric switches which are connected to the control section and the liquid drop ejecting head; and

- the selecting section selects any one of the plural control sections which are connected to the liquid drop ejecting heads by switching a connection of the electric switch.

3. A liquid drop ejecting device according to Claim 1 wherein the selecting

section is provided with plural mechanical switches for switching an electric connection condition between the control section and the liquid drop ejecting heads.

4. A liquid drop ejecting device according to Claim 2 wherein the electric switch is an analogue switch.

5. A liquid drop ejecting device according to Claim 3 wherein the mechanical switch is a DIP switch which is operated by a user.

6. A liquid drop ejecting device according to Claim 1 comprising:

a carriage on which various liquid drop ejecting heads are mounted;

a functional liquid supplying structure which supplies functional liquids to the various liquid drop ejecting heads;

a moving structure which moves the various liquid drop ejecting heads via the carriage relative to the workpiece; and

an ejection driving control section which controls a ejection driving operation in either one of the liquid drop ejecting heads so as to synchronize the moving structure.

7. A liquid drop ejecting device for ejecting a liquid drop to a workpiece comprising a plurality of control sections, wherein the plurality of control sections are provided with plural liquid drop ejecting heads having different specifications from each other and a driving device which drives the liquid

drop ejecting heads which are disposed; and

each head unit has a circuit for restricting an oscillation of a driving waveform which is selected according to an electric characteristic in the liquid drop ejecting head.

8. A liquid drop ejecting device according to Claim 7 wherein the control section contains an electric resistance element and an electric capacity element.

9. A method for ejecting a liquid drop to a workpiece comprising the steps of:

selecting a liquid drop ejecting head which should be driven among plural liquid drop ejecting heads having different specification each other;

selecting a control section among a plurality of control sections which have circuits for restricting an oscillation of the driving waveform which is applied to the liquid drop ejecting heads according to the liquid drop which is ejected from the liquid drop ejecting heads; and

supplying a driving signal to the liquid drop ejecting head which is selected in the step for selecting the liquid drop ejecting head via the control section which is selected in the step for selecting the control section so as to eject the liquid drop.

10. A method for ejecting a liquid drop to a workpiece comprising the steps of:

mounting a head unit which is provided with a liquid drop ejecting head and a control section for restricting an oscillation of a waveform which is applied to a liquid drop ejecting head according to the liquid drop ejecting head and an electric condition therein; and

supplying a driving signal to the liquid drop ejecting head via the control section which is disposed in the head unit which is mounted in the step for mounting a head unit so as to eject the liquid drop.

11. A layer forming device which is provided with the liquid drop ejecting device according to Claim 8.
12. A layer forming method comprising the step for forming a layer by ejecting a liquid drop by the liquid drop ejecting device according to Claim 1.
13. A method for manufacturing a device which is provided with a workpiece in which functional patterns are formed in predetermined sections therein comprising the step for forming the functional patterns in the workpiece by ejecting the liquid drop by the liquid drop ejecting device according to Claim 1.
14. An electronic apparatus which is provided with a device which is manufactured by the liquid drop ejecting device according to Claim 1.
15. A layer forming method comprising the step for forming a layer by

ejecting a liquid drop by the liquid drop ejecting device according to Claim 9.

16. A method for manufacturing a device which is provided with a workpiece in which functional patterns are formed in predetermined sections therein comprising the step for forming the functional patterns in the workpiece by ejecting the liquid drop by the liquid drop ejecting device according to Claim 9.

17. An electronic apparatus which is provided with a device which is manufactured by the liquid drop ejecting device according to Claim 9.